

WHAT IS CLAIMED IS:

- 1               1. A sliding reusable connector for attaching gear to a base unit, said  
2 connector comprising:
  - 3               (a) a main body having a first main body end and a second main body  
4               end;
  - 5               (b) a main body track portion associated with said first main body end;
  - 6               (c) a main body locking portion associated with said second main body  
7               end;
  - 8               (d) a slide having a first slide end and a second slide end;
  - 9               (e) longitudinal slide track structure extending substantially between  
10              said first slide end and said second slide end;
  - 11              (f) slide locking structure associated with said second slide end;
  - 12              (g) said slide track structure slidably interconnected with said main  
13              body track portion; and
  - 14              (h) said slide locking structure repeatedly lockable and unlockable with  
15              said main body locking portion.
- 1               2. The connector of claim 1, said main body further defining at least  
2 one secondary connection means.
- 1               3. The connector of claim 2, wherein each said at least one secondary  
2 connection means is an aperture defined in said main body.
- 1               4. The connector of claim 1 having an open position in which said  
2 second slide end is relatively near said first main body end and a closed position in  
3 which said first slide end is relatively near said first main body end and said second  
4 slide end is relatively near said second main body end, said slide track structure sliding  
5 within said main body track portion between said open position and said closed position.

1               5.     The connector of claim 1 having an open position in which said  
2 second slide end is relatively near said first main body end, an insertion opening defined  
3 between said main body locking portion and both said second slide end and said first  
4 main body end.

1               6.     The connector of claim 5, said main body having a longitudinal  
2 main body length and said insertion opening having a longitudinal insertion opening  
3 length, said longitudinal insertion opening length being more than 60% of said main  
4 body length.

1               7.     The connector of claim 5, wherein said insertion opening is suitable  
2 for allowing a gear attachment mechanism of said gear to be positioned within and  
3 removed from said connector without significant manipulation.

1               8.     The connector of claim 5, wherein said insertion opening is suitable  
2 for allowing a base unit attachment mechanism of said base unit to be positioned within  
3 and removed from said connector without significant manipulation.

1               9.     The connector of claim 1 wherein said longitudinal slide track  
2 structure extending substantially between said first slide end and said second slide end  
3 is at least one groove.

1               10.    The connector of claim 1 wherein said longitudinal slide track  
2 structure extending substantially between said first slide end and said second slide end  
3 is at least one rib.

1               11. A sliding reusable connector for attaching gear to a base unit, said  
2 connector comprising:

- 3               (a) primary connection means comprising:  
4               (i) a main body having a main body track portion and a main  
5               body locking portion, said main body track portion separated  
6               from said main body locking portion by a distance;  
7               (ii) a slide having slide locking structure and longitudinal slide  
8               track structure, longitudinal slide track structure extending  
9               substantially the length of said slide;  
10              (iii) said slide track structure slidably interconnected with said  
11              main body track portion; and  
12              (iv) said slide locking structure repeatedly lockable and  
13              unlockable with said main body locking portion; and  
14              (b) at least one secondary connection means.

1               12. The connector of claim 11, wherein each said at least one  
2 secondary connection means is an aperture defined in said main body.

1               13. The connector of claim 11 said slide track structure slidable within  
2 said main body track portion between an open position and a closed position.

1               14. The connector of claim 11, wherein a gear attachment mechanism  
2 of said gear is positionable within said primary connection means.

1               15. The connector of claim 11, wherein a base unit attachment  
2 mechanism of said base unit is positionable within said primary connection means.

1               16. The connector of claim 11, wherein a base unit attachment  
2 mechanism of said base unit and a gear attachment mechanism of said gear are  
3 simultaneously positionable within said primary connection means.

1               17. A sliding reusable connector for attaching gear to a base unit, said  
2 connector comprising:

- 3               (a) a main body having a first main body end and a second main body  
4               end;
- 5               (b) a main body track portion associated with said first main body end;
- 6               (c) a main body securing portion associated with said second main  
7               body end;
- 8               (d) a slide having a first slide end and a second slide end;
- 9               (e) longitudinal slide track structure extending at least partially between  
10              said first slide end and said second slide end;
- 11              (f) slide securing structure associated with said second slide end;
- 12              (g) said slide track structure slidably interconnected with said main  
13              body track portion; and
- 14              (h) said slide locking structure repeatedly securable and unsecureable  
15              with said main body securing portion.

1               18. The connector of claim 17, said main body further defining at least  
2 one secondary connection means.